PAGE 1 SEQUENCE LISTING
NOT FURNISHED UPON FILING

Phe Arg Ile His	Val Glu	Asn Gln Thr Arg	Ala Arg	Asp Asp	Val Ser
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Arg Lys Gln Leu Arg Leu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys 50 55 60

His Ile Gin Val Leu Gly Arg Arg Ile Ser Ala Arg Gly Glu Asp Gly 65 70 75 80

Asp Lys Tyr Ala Gin Leu Leu Val Glu Thr Asp Thr Phe Gly Ser Gln
85 90 95

Val Arg Ile Lys Gly Lys Glu Thr Glu Phe Tyr Leu Cys Met Asn Arg 100 105 110

Lys Gly Lys Leu Val Gly Lys Pro Asp Gly Thr Ser Lys Glu Cys Val 115 120 125

Phe Ile Glu Lys Val Leu Glu Asn Asn Tyr Thr Ala Leu Met Ser Ala 130 135 140

Lys Tyr Ser Gly Trp Tyr Val Gly Phe Thr Lys Lys Gly Arg Pro Arg 145 150 155 160

Lys Gly Pro Lys Thr Arg Glu Asn Gln Gln Asp Val His Phe Met Lys 165 170 175

Arg Tyr Pro Lys Gly Gln Ala Glu Leu Gln Lys Pro Phe Lys Tyr Thr 180 185 190

Thr Val Thr Lys Arg Ser Arg Arg Ile Arg Pro Thr His Pro Gly 195 200 205

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<211> 1406

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Asp Phe Arg Ile His Val Glu Asn Gln Thr Arg Ala Arg Asp Asp Val 35 40 45

Ser Arg Lys Gln Leu Arg Leu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly 50 55 60

Lys His Ile Gln Val Leu Gly Arg Arg Ile Ser Ala Arg Gly Glu Asp 65 70 75 80

Gly Asp Lys Tyr Ala Gln Leu Leu Val Glu Thr Asp Thr Phe Gly Ser 85 90 95

Gln Val Arg Ile Lys Gly Lys Glu Thr Glu Phe Tyr Leu Cys Met Asn 100 105 110

Arg Lys Gly Lys Leu Val Gly Lys Pro Asp Gly Thr Ser Lys Glu Cys 115 120 125

Val Phe Ile Glu Lys Val Leu Glu Asn Asn Tyr Thr Ala Leu Met Ser 130 135 140

Ala Lys Tyr Ser Gly Trp Tyr Val Gly Phe Thr Lys Lys Gly Arg Pro 145 150 155 160

Arg Lys Gly Pro Lys Thr Arg Glu Asn Gln Gln Asp Val His Phe Met
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Lys Arg Tyr Pro Lys Gly Gln Pro Glu Leu Gln Lys Pro Phe Lys Tyr 180 185 190

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<210> 5

<211> 2716

<212> DNA

<213> House Mouse

<400> 5

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aggcagcgcc agagggaacg aacgagccga gcgaggaagg gagagccgag cgcaaggagg 240

agegeacaeg cacacaeceg egegtaceeg etegegeaca gacagegegg ggacagetea 300

caagteetea ggtteegegg aegagatget getgetgetg geeagatgtt ttetggtgat 360

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<210> 6

<211> 437

<212> PRT

<213> House Mouse

<400> 6

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Leu Leu Val Cys Pro Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly
20 25 30

Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe 35 40 45

Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu 50 55 60

Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn 65 70 75 80

Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp 85 90 95

Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile 100 105 110

Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly
115 120 125

- Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly 130 135 140
- Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly
 145 150 155 160
- Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr 165 170 175
- Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val 180 185 190
- Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu 195 200 205
- Glu Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Arg Pro Gly Asp Arg 210 215 220
- Val Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu 225 230 235 240
- Thr Phe Leu Asp Arg Asp Glu Gly Ala Lys Lys Val Phe Tyr Val Ile 245 250 255
- Glu Thr Leu Glu Pro Arg Glu Arg Leu Leu Leu Thr Ala Ala His Leu 260 265 270
- Leu Phe Val Ala Pro His Asn Asp Ser Gly Pro Thr Pro Gly Pro Ser 275 280 285
- Ala Leu Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val 290 295 300
- Ala Glu Arg Gly Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser 305 310 315 320
- Val Thr Leu Arg Glu Glu Glu Ala Gly Ala Tyr Ala Pro Leu Thr Ala 325 330 335
- His Gly Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val 340 345 350
- Ile Glu Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu

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355 360 365

Ala His Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Gly Gly 370 375 380

Gly Gly Ser Ile Pro Ala Ala Gln Ser Ala Thr Glu Ala Arg Gly 385 390 395 400

Ala Glu Pro Thr Ala Gly Ile His Trp Tyr Ser Gln Leu Leu Tyr His 405 410 415

Ile Gly Thr Trp Leu Leu Asp Ser Glu Thr Met His Pro Leu Gly Met 420 425 430

Ala Val Lys Ser Ser 435

<210> 7

<211> 3565

<212> DNA

<213> House Mouse

<400> 7

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<211> 781

<212> PRT

<213> House Mouse

<400> 8

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25
30

Ser Gly Ile His Ser Gly Ala Thr Thr Thr Ala Pro Ser Leu Ser Gly
35 40 45

Lys Gly Asn Pro Glu Glu Glu Asp Val Asp Thr Ser Gln Val Leu Tyr 50 55 60

Glu Trp Glu Gln Gly Phe Ser Gln Ser Phe Thr Gln Glu Gln Val Ala 65 70 75 80

- Asp Ile Asp Gly Gln Tyr Ala Met Thr Arg Ala Gln Arg Val Arg Ala 85 90 95
- Ala Met Phe Pro Glu Thr Leu Asp Glu Gly Met Gln Ile Pro Ser Thr 100 105 110
- Gln Phe Asp Ala Ala His Pro Thr Asn Val Gln Arg Leu Ala Glu Pro 115 120 125
- Ser Gln Met Leu Lys His Ala Val Val Asn Leu Ile Asn Tyr Gln Asp 130 135 140
- Asp Ala Glu Leu Ala Thr Arg Ala Ile Pro Glu Leu Thr Lys Leu Leu 145 150 155 160
- Asn Asp Glu Asp Gln Val Val Val Asn Lys Ala Ala Val Met Val His 165 170 175
- Gln Leu Ser Lys Lys Glu Ala Ser Arg His Ala Ile Met Arg Ser Pro 180 185 190
- Gln Met Val Ser Ala Ile Val Arg Thr Met Gln Asn Thr Asn Asp Val 195 200 205
- Glu Thr Ala Arg Cys Thr Ala Gly Thr Leu His Asn Leu Ser His His 210 215 220
- Arg Glu Gly Leu Leu Ala Ile Phe Lys Ser Gly Gly Ile Pro Ala Leu 225 230 235 240
- Val Lys Met Leu Gly Ser Pro Val Asp Ser Val Leu Phe Tyr Ala Ile 245 250 255
- Thr Thr Leu His Asn Leu Leu Leu His Gln Glu Gly Ala Lys Met Ala 260 265 270
- Val Arg Leu Ala Gly Gly Leu Gln Lys Met Val Ala Leu Leu Asn Lys 275 280 285
- Thr Asn Val Lys Phe Leu Ala Ile Thr Thr Asp Cys Leu Gln Ile Leu 290 295 300
- Ala Tyr Gly Asn Gln Glu Ser Lys Leu Ile Ile Leu Ala Ser Gly Gly 305 310 315 320

- Pro Gln Ala Leu Val Asn Ile Met Arg Thr Tyr Thr Tyr Glu Lys Leu 325 330 335
- Leu Trp Thr Thr Ser Arg Val Leu Lys Val Leu Ser Val Cys Ser Ser 340 345 350
- Asn Lys Pro Ala Ile Val Glu Ala Gly Gly Met Gln Ala Leu Gly Leu 355 360 365
- His Leu Thr Asp Pro Ser Gln Arg Leu Val Gln Asn Cys Leu Trp Thr 370 375 380
- Leu Arg Asn Leu Ser Asp Ala Ala Thr Lys Gln Glu Gly Met Glu Gly 385 390 395 400
- Leu Leu Gly Thr Leu Val Gln Leu Leu Gly Ser Asp Asp Ile Asn Val 405 410 415
- Val Thr Cys Ala Ala Gly Ile Leu Ser Asn Leu Thr Cys Asn Asn Tyr 420 425 430
- Lys Asn Lys Met Met Val Cys Gln Val Gly Gly Ile Glu Ala Leu Val 435 440 445
- Arg Thr Val Leu Arg Ala Gly Asp Arg Glu Asp Ile Thr Glu Pro Ala 450 455 460
- Ile Cys Ala Leu Arg His Leu Thr Ser Arg His Gln Glu Ala Glu Met 465 470 475 480
- Ala Gln Asn Ala Val Arg Leu His Tyr Gly Leu Pro Val Val Val Lys 485 490 495
- Leu Leu His Pro Pro Ser His Trp Pro Leu Ile Lys Ala Thr Val Gly 500 505 510
- Leu Ile Arg Asn Leu Ala Leu Cys Pro Ala Asn His Ala Pro Leu Arg 515 520 525
- Glu Gln Gly Ala Ile Pro Arg Leu Val Gln Leu Leu Val Arg Ala His 530 535 540
- Gln Asp Thr Gln Arg Arg Thr Ser Met Gly Gly Thr Gln Gln Gln Phe 545 550 555 560

- Val Glu Gly Val Arg Met Glu Glu Ile Val Glu Gly Cys Thr Gly Ala 565 570 575
- Leu His Ile Leu Ala Arg Asp Val His Asn Arg Ile Val Ile Arg Gly 580 585 590
- Leu Asn Thr Ile Pro Leu Phe Val Gln Leu Leu Tyr Ser Pro Ile Glu 595 600 605
- Asn Ile Gln Arg Val Ala Ala Gly Val Leu Cys Glu Leu Ala Gln Asp 610 615 620
- Lys Glu Ala Ala Glu Ala Ile Glu Ala Glu Gly Ala Thr Ala Pro Leu 625 630 635 640
- Thr Glu Leu Leu His Ser Arg Asn Glu Gly Val Ala Thr Tyr Ala Ala 645 650 655
- Ala Val Leu Phe Arg Met Ser Glu Asp Lys Pro Gln Asp Tyr Lys Lys 660 665 670
- Arg Leu Ser Val Glu Leu Thr Ser Ser Leu Phe Arg Thr Glu Pro Met
 675 680 685
- Ala Trp Asn Glu Thr Ala Asp Leu Gly Leu Asp Ile Gly Ala Gln Gly 690 695 700
- Glu Ala Leu Gly Tyr Arg Gln Asp Asp Pro Ser Tyr Arg Ser Phe His 705 710 715 720
- Ser Gly Gly Tyr Gly Gln Asp Ala Leu Gly Met Asp Pro Met Met Glu
 725 730 735
- His Glu Met Gly Gly His His Pro Gly Ala Asp Tyr Pro Val Asp Gly 740 745 750
- Leu Pro Asp Leu Gly His Ala Gln Asp Leu Met Asp Gly Leu Pro Pro 755 760 765
- Gly Asp Ser Asn Gln Leu Ala Trp Phe Asp Thr Asp Leu 770 775 780

<210> 9

<211> 3971 <212> DNA

<213> House Mouse

<400> 9

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<210> 10

<211> 370

<212> PRT

<213> House Mouse

<400> 10

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Leu Ala Leu Thr Ala Leu Pro Ala Ala Leu Ala Ala Asn Ser Ser Gly 20 25 30

Arg Trp Trp Gly Ile Val Asn Ile Ala Ser Ser Thr Asn Leu Leu Thr 35 40 45

Asp Ser Lys Ser Leu Gln Leu Val Leu Glu Pro Ser Leu Gln Leu Leu 50 55 60

Ser Arg Lys Gln Arg Arg Leu Ile Arg Gln Asn Pro Gly Ile Leu His 65 70 75 80

Ser Val Ser Gly Gly Leu Gln Ser Ala Val Arg Glu Cys Lys Trp Gln 85 90 95

Phe Arg Asn Arg Arg Trp Asn Cys Pro Thr Ala Pro Gly Pro His Leu 100 105 110

Phe Gly Lys Ile Val Asn Arg Gly Cys Arg Glu Thr Ala Phe Ile Phe 115 120 125

- Ala Ile Thr Ser Ala Gly Val Thr His Ser Val Ala Arg Ser Cys Ser 130 135 140
- Glu Gly Ser Ile Glu Ser Cys Thr Cys Asp Tyr Arg Arg Arg Gly Pro 145 150 155 160
- Gly Gly Pro Asp Trp His Trp Gly Gly Cys Ser Asp Asn Ile Asp Phe 165 170 175
- Gly Arg Leu Phe Gly Arg Glu Phe Val Asp Ser Gly Glu Lys Gly Arg 180 185 190
- Asp Leu Arg Phe Leu Met Asn Leu His Asn Asn Glu Ala Gly Arg Thr 195 200 205
- Thr Val Phe Ser Glu Met Arg Gln Glu Cys Lys Cys His Gly Met Ser 210 215 220
- Gly Ser Cys Thr Val Arg Thr Cys Trp Met Arg Leu Pro Thr Leu Arg 225 230 235 240
- Ala Val Gly Asp Val Leu Arg Asp Arg Phe Asp Gly Ala Ser Arg Val 245 250 255
- Leu Tyr Gly Asn Arg Gly Ser Asn Arg Ala Ser Arg Ala Glu Leu Leu 260 265 270
- Arg Leu Glu Pro Glu Asp Pro Ala His Lys Pro Pro Ser Pro His Asp 275 280 285
- Leu Val Tyr Phe Glu Lys Ser Pro Asn Phe Cys Thr Tyr Ser Gly Arg 290 295 300
- Leu Gly Thr Ala Gly Thr Ala Gly Arg Ala Cys Asn Ser Ser Ser Pro 305 310 315 320
- Ala Leu Asp Gly Cys Glu Leu Leu Cys Cys Gly Arg Gly His Arg Thr 325 330 335
- Arg Thr Gln Arg Val Thr Glu Arg Cys Asn Cys Thr Phe His Trp Cys 340 345 350
- Cys His Val Ser Cys Arg Asn Cys Thr His Thr Arg Val Leu His Glu

355 360 365

Cys Leu 370

<210> 11

<211> 1669

<212> DNA

<213> House Mouse

<400> 11

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<210> 12

<211> 364

<212> PRT

<213> House Mouse

<400> 12

Met Leu Pro Pro Val Pro Ser Arg Leu Gly Leu Leu Leu Leu Leu Leu 1 5 10 15

Cys Pro Ala His Val Asp Gly Leu Trp Trp Ala Val Gly Ser Pro Leu 20 25 30

Val Met Asp Pro Thr Ser Ile Cys Arg Lys Ala Arg Arg Leu Ala Gly 35 40 45

Arg Gln Ala Glu Leu Cys Gln Ala Glu Pro Glu Val Val Ala Glu Leu 50 55 60

Ala Arg Gly Ala Arg Leu Gly Val Arg Glu Cys Gln Phe Gln Phe Arg 65 70 75 80

Phe Arg Arg Trp Asn Cys Ser Ser His Ser Lys Ala Phe Gly Arg Val 85 90 95

Leu Gln Gln Asp Ile Arg Glu Thr Ala Phe Val Phe Ala Ile Thr Ala 100 105 110

Ala Gly Ala Ser His Ala Val Thr Gln Ala Cys Ser Met Gly Glu Leu 115 120 125

Leu Gln Cys Gly Cys Gln Ala Pro Arg Gly Arg Ala Pro Pro Arg Pro 130 135 140

Ser Gly Leu Leu Gly Thr Pro Gly Pro Pro Gly Pro Thr Gly Ser Pro 145 150 155 160

Asp Ala Ser Ala Ala Trp Glu Trp Gly Gly Cys Gly Asp Asp Val Asp

165

170

175

Phe Gly Asp Glu Lys Ser Arg Leu Phe Met Asp Ala Gln His Lys Arg 180 185 190

Gly Arg Gly Asp Ile Arg Ala Leu Val Gln Leu His Asn Asn Glu Ala 195 200 205

Gly Arg Leu Ala Val Arg Ser His Thr Arg Thr Glu Cys Lys Cys His 210 215 220

Gly Leu Ser Gly Ser Cys Ala Leu Arg Thr Cys Trp Gln Lys Leu Pro 225 230 235 240

Pro Phe Arg Glu Val Gly Ala Arg Leu Leu Glu Arg Phe His Gly Ala 245 250 255

Ser Arg Val Met Gly Thr Asn Asp Gly Lys Ala Leu Leu Pro Ala Val 260 265 270

Arg Thr Leu Lys Pro Pro Gly Arg Ala Asp Leu Leu Tyr Ala Ala Asp 275 280 285

Ser Pro Asp Phe Cys Ala Pro Asn Arg Arg Thr Gly Ser Pro Gly Thr 290 295 300

Arg Gly Arg Ala Cys Asn Ser Ser Ala Pro Asp Leu Ser Gly Cys Asp 305 310 315 320

Leu Leu Cys Cys Gly Arg Gly His Arg Gln Glu Ser Val Gln Leu Glu 325 330 335

Glu Asn Cys Leu Cys Arg Phe His Trp Cys Cys Val Val Gln Cys His 340 345 350

Arg Cys Arg Val Arg Lys Glu Leu Ser Leu Cys Leu 355 360

<210> 13

<211> 3154

<212> DNA

<213> House Mouse

<400> 13

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<210> 14

<211> 349

<212> PRT

<213> House Mouse

<400> 14

Met His Arg Asn Phe Arg Lys Trp Ile Phe Tyr Val Phe Leu Cys Phe 1 5 10 15

Gly Val Leu Tyr Val Lys Leu Gly Ala Leu Ser Ser Val Val Ala Leu 20 25 30

- Val Ala Asn Ile Ile Cys Asn Lys Ile Pro Gly Leu Ala Pro Arg Gln 35 40 45
- Arg Ala Ile Cys Gin Ser Arg Pro Asp Ala Ile Ile Val Ile Gly Glu 50 55 60
- Gly Ala Gln Met Gly Ile Asp Glu Cys Gln His Gln Phe Arg Phe Gly 65 70 75 80
- Arg Trp Asn Cys Ser Ala Leu Gly Glu Lys Thr Val Phe Gly Gln Glu 85 90 95
- Leu Arg Val Gly Ser Arg Glu Ala Ala Phe Thr Tyr Ala Ile Thr Ala 100 105 110
- Ala Gly Val Ala His Ala Val Thr Ala Ala Cys Ser Gln Gly Asn Leu 115 120 125
- Ser Asn Cys Gly Cys Asp Arg Glu Lys Gln Gly Tyr Tyr Asn Gln Ala 130 135 140
- Glu Gly Trp Lys Trp Gly Gly Cys Ser Ala Asp Val Arg Tyr Gly Ile 145 150 155 160
- Asp Phe Ser Arg Arg Phe Val Asp Ala Arg Glu Ile Lys Lys Asn Ala 165 170 175
- Arg Arg Leu Met Asn Leu His Asn Asn Glu Ala Gly Arg Lys Val Leu 180 185 190
- Glu Asp Arg Met Lys Leu Glu Cys Lys Cys His Gly Val Ser Gly Ser 195 200 205
- Cys Thr Thr Lys Thr Cys Trp Thr Thr Leu Pro Lys Phe Arg Glu Val 210 215 220
- Gly His Leu Leu Lys Glu Lys Tyr Asn Ala Ala Val Gln Val Glu Val 225 230 235 240
- Val Arg Ala Ser Arg Leu Arg Gln Pro Thr Phe Leu Arg Ile Lys Gln 245 250 255
- Leu Arg Ser Tyr Gln Lys Pro Met Glu Thr Asp Leu Val Tyr Ile Glu

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260

265

270

Lys Ser Pro Asn Tyr Cys Glu Glu Asp Ala Ala Thr Gly Ser Val Gly 275 280 285

Thr Gln Gly Arg Leu Cys Asn Arg Thr Ser Pro Gly Ala Asp Gly Cys 290 295 300

Asp Thr Met Cys Cys Gly Arg Gly Tyr Asn Thr His Gln Tyr Thr Lys 305 310 315 320

Val Trp Gln Cys Asn Cys Lys Phe His Trp Cys Cys Phe Val Lys Cys 325 330 335

Asn Thr Cys Ser Glu Arg Thr Glu Val Phe Thr Cys Lys 340 345